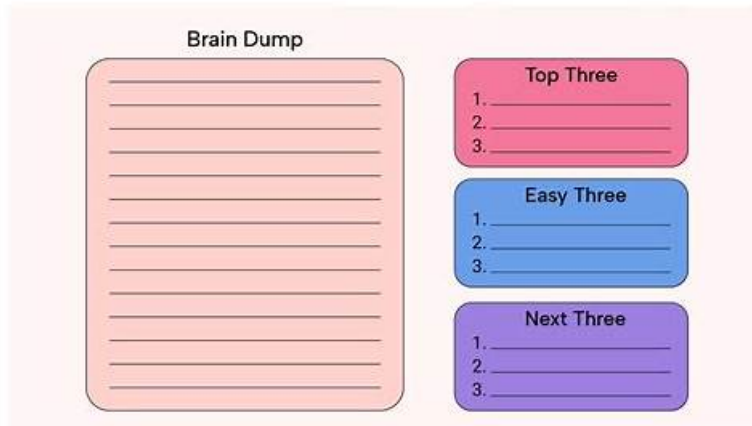


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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Security: This section of the exam measures the skills of Network Security Engineers and covers the implementation of infrastructure-level protection in cloud and NFVI ecosystems. It includes topics such as ACLs, uRPF, RTBH, router hardening, BGP flowspec, TACACS, and MACSEC. Candidates should understand DoS mitigation methods and apply security practices within NFVI, focusing on API protection, securing the control and management plane, and segmentation strategies in service provider cloud environments. The domain also evaluates basic knowledge of TLS, mTLS, and general cloud security solutions related to DNS protection, zero-day defenses, and malware detection.

Topic 2	<ul style="list-style-type: none"> • High Availability: This section of the exam measures the skills of Cloud Infrastructure Architects and covers the design and implementation of redundancy and resiliency mechanisms in virtualized network functions and distributed cloud platforms. It includes data plane redundancy for VNFs, high availability within a single VIM control plane, and resilient compute, vNIC, and top-of-rack switching. The exam requires an understanding of multi-homing, EVLAG configurations, virtual private cloud deployment, and ECMP strategies for NFVI integrations with physical routing protocols such as BGP, OSPF, and IS-IS. Candidates must also recommend suitable high-availability models involving DNS, routing, and load balancing.
Topic 3	<ul style="list-style-type: none"> • Virtualized Architecture: This section of the exam measures the skills of Cloud Network Engineers and covers the foundational concepts of virtualized infrastructures used in modern service provider and cloud environments. Candidates are expected to understand constraints in IaaS designs, determine appropriate cloud service models, and demonstrate awareness of container orchestration compared to traditional virtual machines. The exam also evaluates the ability to implement key virtualization functions such as NFV, VNF, NSO, and virtualized Cisco platforms. Learners must be able to deploy NFV with automation tools, manage VNF onboarding, work with NSO-driven orchestration, and use protocols like NETCONF, RESTCONF, REST APIs, and gNMI within automated cloud ecosystems. A general understanding of supporting platforms such as OpenStack also forms part of the required knowledge in this domain.
Topic 4	<ul style="list-style-type: none"> • Service Assurance and Optimization: This section of the exam measures the skills of Cloud Operations Engineers and covers assurance mechanisms used to maintain performance, stability, and visibility across NFVI environments. It includes network assurance concepts such as MANO frameworks, VNF workload monitoring, VIM control plane KPIs, and streaming telemetry with gRPC and gNMI. Candidates must understand cloud infrastructure performance monitoring tools, including SR-PM, NetFlow, IPFIX, syslog, SNMP traps, RMON, cloud agents, and automated fault management systems. The domain also touches on diagnosing NFVI-related errors and optimizing VNFs using techniques such as SR-IOV and software-accelerated virtual switching technologies like DPDK and VPP.
Topic 5	<ul style="list-style-type: none"> • Cloud Interconnect: This section of the exam measures the skills of Service Provider Network Engineers and covers how large networks interconnect with cloud platforms and carrier-neutral facilities. Candidates are expected to understand various connectivity options to cloud providers, customer sites, and other neutral facilities, as well as evaluate WAN connectivity models such as direct connect, MPLS or segment routing, and IPsec VPN links. The domain also includes the ability to troubleshoot advanced data center interconnect solutions, including EVPN VXLAN, EVPN over SR • MPLS, ACI-based connectivity, and pseudowire architectures supporting cloud-to-cloud and cloud-to-edge communication.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q141-Q146):

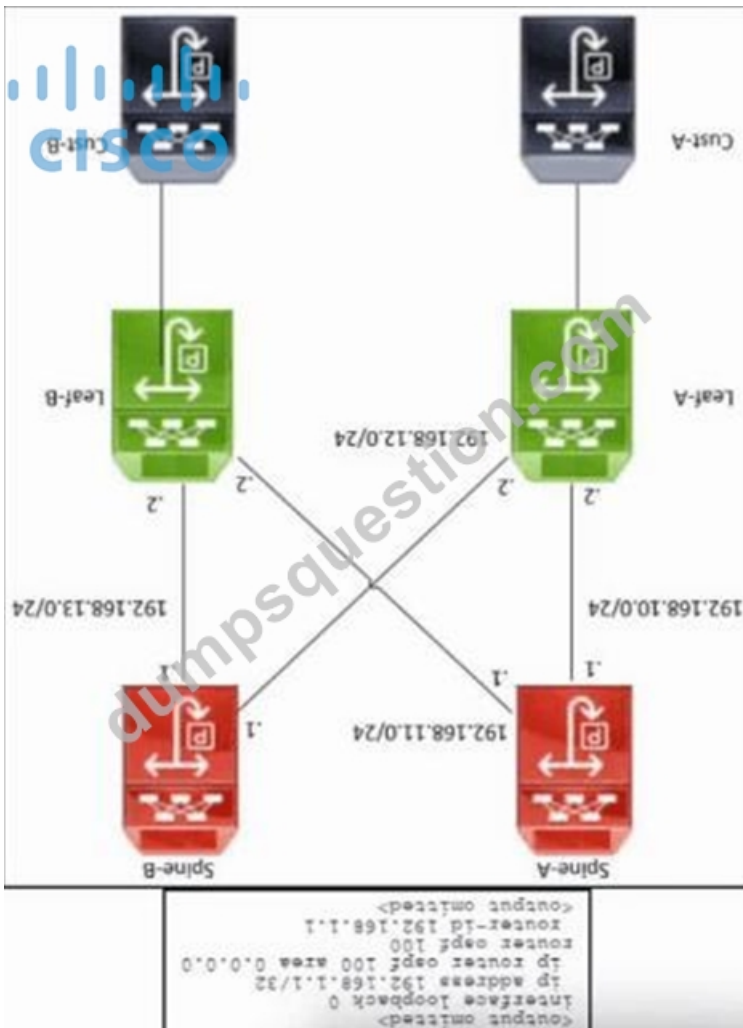
NEW QUESTION # 141

Carrier-neutral facilities offer connectivity options to cloud providers through which of the following?
(Choose two)

- A. Public internet gateways
- B. Dial-up connections
- C. Dedicated leased lines
- D. Direct connect services

Answer: C,D

NEW QUESTION # 142



Refer to the exhibit. An engineer must deploy a Layer 3 EVPN over segment routing MPLS in the data center core; however, Cisco switch Spine_A fails to join the OSPF network. Which OSPF command must be run on Spine_A to resolve the issue?

- A. connected-prefix-sid-map
- B. address-family ipv4
- C. segment-routing mpls
- D. otv join-interface loopback0

Answer: C

Explanation:

To run EVPN over Segment Routing MPLS (SR-MPLS), the IGP (here OSPF) must be enabled for segment routing so it can:

- * Advertise Segment IDs (SIDs) for prefixes and links
- * Carry SR extensions in OSPF LSAs

On Cisco devices, this is done under the OSPF process with:

```

router ospf 100
router-id 192.168.1.1
segment-routing mpls

```

Without the segment-routing mpls command, Spine_A will not participate correctly in the SR-enabled OSPF domain, and SR-related adjacencies/LSAs will not form as expected, resulting in failure to integrate into the intended SR-MPLS core.

The other options are not OSPF SR-enabling commands:

- * A otv join-interface# OTV, unrelated to OSPF or SR-MPLS.
- * B address-family ipv4# BGP address family, not OSPF.
- * C connected-prefix-sid-map# Global SR mapping for connected prefixes but does not itself enable SR for OSPF.

Therefore, the correct command is segment-routing mpls (D).

NEW QUESTION # 143

uRPF is utilized to combat which type of security threat?

- A. Insider threats
- **B. Spoofing attacks**
- C. DDoS attacks
- D. Viruses

Answer: B

NEW QUESTION # 144

The primary benefit of MACSEC is:

- A. Filtering traffic based on content
- B. Increasing the speed of network devices
- **C. Encrypting frames on a network**
- D. Authenticating users accessing the network

Answer: C

NEW QUESTION # 145

The implementation of _____ in high availability designs helps to manage traffic flow and prevent overloads.

- **A. load balancers**
- B. firewalls
- C. DNS
- D. routing protocols

Answer: A

NEW QUESTION # 146

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